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09/620,053	07/20/2000	Yang Cao	Cao-5	3581
7590 02/23/2006			EXAMINER	
HARNESS, D	ICKEY & PIERCE, P	MOORE, IAN N		
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER
,			2661	

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/620,053	CAO, YANG				
		Examiner	Art Unit				
		Ian N. Moore	2661				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet v	vith the correspondence address -	-			
WHIC - Exte after - If NO - Failt Any	HORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING Expressions of time may be available under the provisions of 37 CFR 1. To SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 01 F	February 2006.					
2a)⊠	2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposit	tion of Claims						
4)🖂	4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
	Claim(s) is/are allowed.						
•	Claim(s) <u>1-10,12-23,25-31,33-38 and 40-42</u> is	s/are rejected.					
	Claim(s) 11,24,32,39 is/are objected to.						
8)[Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	tion Papers						
, —	The specification is objected to by the Examin						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correct						
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form P1O-152	<u>'</u>			
Priority (under 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign All b) Some * c) None of:		§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documen		A contraction bla				
	2. Certified copies of the priority document						
	3. Copies of the certified copies of the price application from the International Burea		il received ill tills National Stage				
* 9	See the attached detailed Office action for a lis		t received.				
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Attachmer	• •	A) 🗀 Indonésia.	Summary (PTO-413)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date				
3) Info	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	5) Notice of 6) Other: _	Informal Patent Application (PTO-152)				

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1,4, 12,15,28 and 33 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 16, 28, and 35 of U.S. Patent No. 6,865,179 in view of Suzuki (US006330239B1).

Claims 1,4,12,15,28 and 33 of the instant application is the same scope of the claim 1, 16, 28, and 35 of the Patent (US 6,865,179 to Cao) by replacing ATM traffic with IP traffic, and eliminating provisioning resources step. However, routing IP traffic over ATM traffic or replacing ATM traffic with IP traffic is well known in the art. In particular, Suzuki discloses such limitation in FIG. 9-11; see col. 8, line 6 to col. 9, line 43. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide, as taught by Suzuki in the art in the system of Cao, so that it would provide an exchange apparatus that securely converts an address with a small amount of information and assures and expands services; see Suzuki col. 2, line 64-67.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412 (US005920412A) in view of Chang'757 (US006657757B1).

Regarding Claims 1 and 12, Chang'412 discloses a hybrid telecommunication switch comprising at least one circuit switch fabric (see FIG. 4, optical network routing apparatus, ONRA 14d) comprising:

at lease one circuit switch fabric (see FIG. 4, STM ADM 28; see col. 9, lines 16-22); at lease one packet switch fabric (see FIG. 4, ATM ADM 32; see col. 9, lines 15-25); and a controller (see FIG. 4, Type check 24; see col. 11, line 46-50; see col. 12, line 15-22) route traffic (see col. 11, line 1-16; signals/traffic) to the circuit switch fabric or packet switch fabric depending on an ATM service category/type of traffic (see FIG. 5, step 50,52 and 56; note that ATM service category/type are defined as real time or non-real time signals; and thus, when routing according to ATM service category one must route by determining whether the service signals are real-time or non-real time signals. Thus, routing to either STM/TDM or ATM ADMs according to type of service as STM real time signals/traffic or ATM real/non-real time signals/traffic; see col. 12, line 9-46; see col. 15, line 25-52).

Chang'412 does not explicitly disclose IP traffic. However, it is well known in the art that IP traffic can be transported over STM/SONET/SDH, and IP traffic can also be transported over

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ATM. Chang'757 teaches IP traffic/router 112 is coupled to ATM/SONET system 131 (see FIG. 1, see col. 9, line 1-5). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide routing IP traffic over ATM/SONET system, as taught by Chang'757 in the system of Chang'412, so that it would combine the advantages of circuit-switching and packet-switching IP technologies; and it will also provide low latency, high throughput, and cost-effective bandwidth-on demand; see Chang'757 col. 9, line 1920-22; see col. 8, line 35-39.

5. Claims 2, 3,7,13,14,28 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412 in view of Chang'757, and further in view of Dail (US005570355A).

Regarding Claims 2, 3, 7, 13, 14, 18, 28 and 33, Chang'412 discloses a hybrid telecommunication switch comprising at least one circuit switch fabric (see FIG. 4, optical network routing apparatus, ONRA 14d) comprising:

at lease one circuit switch fabric (see FIG. 4, STM ADM 28; see col. 9, lines 16-22); at lease one packet switch fabric (see FIG. 4, ATM ADM 32; see col. 9, lines 15-25); and a controller (see FIG. 4, Type check 24; see col. 11, line 46-50; see col. 12, line 15-22) route traffic (see col. 11, line 1-16; signals/traffic) to the circuit switch fabric or packet switch fabric depending on an ATM service category/type of traffic (see FIG. 5, step 50,52 and 56; note that ATM service category/type are defined as real time or non-real time signals; and thus, when routing according to ATM service category one must route by determining whether the service signals are real-time or non-real time signals. Thus, routing to either STM/TDM or ATM ADMs

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according to type of service as STM real time signals/traffic or ATM real/non-real time signals/traffic; see col. 12, line 9-46; see col. 15, line 25-52);

Chang'412 does not explicitly disclose IP traffic. However, it is well known in the art that IP traffic can be transported over STM/SONET/SDH, and IP traffic can also be transported over ATM. Chang'757 teaches IP traffic/router 112 is coupled to ATM/SONET system 131 (see FIG. 1, see col. 9, line 1-5). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide routing IP traffic over ATM/SONET system, as taught by Chang'757 in the system of Chang'412, so that it would combine the advantages of circuit-switching and packet-switching IP technologies; and it will also provide low latency, high throughput, and cost-effective bandwidth-on demand; see Chang'757 col. 9, line 1920-22; see col. 8, line 35-39.

Neither Chang'412 nor Chang'757 explicitly disclose allocate switch fabric to traffic falling within an ATM service category; and allocate available switch resources, as indicated by a resource table, to received traffic request. However, Dail discloses allocate switch fabric to traffic falling within an ATM service category, or provisioning a portion of the switch resources for circuit switch traffic (see FIG. 11, bandwidth controller 435 allocates STM or ATM/CBR calls in 1112; see col. 16, line 35-57; also see FIG. 7); and

allocate available switch resources, as indicated by a resource table, to received traffic request, or allocate the remaining portion of the switch resources to non-STM traffic as a controller route traffic to the switch fabric(see FIG. 11, allocates ATM/VBR calls in 1101 and 1102; see col. 16, line 35-57; also see FIG. 13-14; see col. 17, line 25 to col. 18, line 34; note that

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buffer maintains table/registers for allocation; also see FIG. 7, dynamic mark between STM and ATM bandwidth).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide allocation circuit switching, as taught by Dail, in the combined system of Chang'412 and Chang'757, so that it would adapt to the changing demands of a mix of STM and ATM applications, and efficiently allocates bandwidth; see Dail col. 2, line 53-66.

6. Claim 4-6 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412 in view of Chang'757 and Dail as applied to claim 2 above, and further in view of Brueckheimer (US006574224B1).

Regarding Claims 4 and 15, the combined system of Chang'412, Chang'757 and Dail discloses routing IP traffic associated with a ATM service category to the circuit switch fabric (see Chang'412 FIG. 5, step 50,52 and 56; routing to STM ADM according to STM real time signals/traffic (i.e. ATM service category); see col. 12, line 9-46; see col. 15, line 25-52).

Neither Chang'412 nor Chang'757 explicitly disclose constant bit rate (CBR). However, CBR is well known in the art for classifying real time application such as voice and video. In particular, Brueckheimer discloses routing traffic associated with a ATM service category to the circuit switch fabric (see FIG. 1, AAL 1 traffic/data in Voice Switch 25; FIG. 14, voice AAL 1 in AAL/IP interworking module; or FIG. 7, voice AAL 1 in VoIP AAL interworking module; see col. 6, lines 47-65; note that traffic/data is related/associated with AAL 1 (i.e. CBR category) and routed toward the voice switch/AAL/IP interworking module).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide switching AAL 1 to voice switch, as taught by Brueckheimer, in the combined system of Chang'412 and Chang'757, so that it would provide a functional partationining of devices that is an optimal separation of concerns for traffic management, quality of service (QoS) controls, buffer depth scaling and low latency; see Brueckheimer col. 3, line 10-33.

Regarding Claims 5 and 16, the combined system of Chang'412 and Chang'757 discloses routing IP traffic associated with a real time ATM service category to the circuit switch fabric (see Chang'412 FIG. 5, step 50,52 and 56; routing to STM ADM according to STM real time signals/traffic (i.e. ATM service category); see col. 12, line 9-46; see col. 15, line 25-52).

Neither Chang'412 nor Chang'757 explicitly disclose variable bit rate (VBR). However, rt-VBR is well known in the art for classifying real time application. In particular, Brueckheimer discloses routing traffic associated with a rt-VBR ATM service category to the circuit switch fabric (see FIG. 1, AAL 2 traffic/data in Voice Switch 25; FIG. 14, voice AAL 2 in AAL/IP interworking module; or FIG. 7, voice AAL 2 in VoIP AAL interworking module; see col. 6, lines 47-65; note that traffic/data is related/associated with AAL 2 (i.e. real time VBR category) and routed toward the voice switch/AAL/IP interworking module).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide switching AAL 2 to voice switch, as taught by Brueckheimer, in the combined system of Chang'412 and Chang'757, for the as motivation as stated above in claim 4.

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Regarding Claim 6 and 17, the combined system of Chang'412 and Chang'757 discloses routing IP traffic associated with a non-real time ATM service category to the packet switch fabric (see Chang'412 FIG. 5, step 50,52 and 56; routing to ATM ADM according to ATM non-real time signals/traffic (i.e. ATM service category); see col. 12, line 9-46; see col. 15, line 25-52).

Neither Chang'412 nor Chang'757 explicitly disclose traffic not associated with CBR or rt-VBR ATM. However, rt-VBR is well known in the art for classifying real time application. In particular, Brueckheimer discloses routing traffic associated with a rt-VBR ATM service category to the packet switch fabric (see FIG. 1, AAL 5 traffic/data in Data/Packet Switch 26; FIG. 14, AAL 5 in AAL/IP interworking module; or FIG. 7, AAL 5 in VoIP AAL interworking module; see col. 6, lines 47-65; note that traffic/data is related/associated with AAL 5 (i.e. neither CBR nor real time VBR category) and routed toward the data switch/AAL/IP interworking module).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide switching AAL 5 to packet switch, as taught by Brueckheimer, in the combined system of Chang'412 and Chang'757, for the as motivation as stated above in claim 4.

7. Claims 8, 19, 29 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412 in view of Chang'757 and Dail, as applied to claims 3, 13, 28, and 33 above, and further in view of Caldara (U.S. 5,982,771).

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Regarding claims 8, 19, 29 and 34, the combined system of Chang'412, Chang'757 and Dail discloses the controller maintain a circuit switch resource table as described above in claims 3, 13, 28, and 33.

Neither Chang'412, Chang'757 nor Dail explicitly discloses egress resource table. However, the above-mentioned claimed limitations are taught by Caldara'771. In particular, Caldara'771 teaches controller (see FIG. 1, Bandwidth Arbiter 12) maintains switch ingress (see FIG. 1, a combined system of memory/RAM/resource table 21,20,23 in Input port 14) and egress resource table (see FIG. 1, a combined system of memory/RAM/resource table 48,42,44,46 in Output port 16); see col. 5, lines 10 to col. 6, lines 35).

In view of this, having the combined system of Chang'412, Chang'757 and Dail, then given the teaching of Caldara, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the combined system of Chang'412, Chang'757 and Dail, by providing output memory resource table in order to control bandwidth allocation, as taught by Caldara. The motivation to combine is to obtain the advantages/benefits taught by Caldara states at col. 1, line 50 to col. 4, lines 25 that such modification would efficiently allocates the available bandwidth while assuring that minimum bandwidth and delay requirement of connects are satisfied.

8. Claims 9, 20-22, 25-27, 30, 35-37 and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412, Chang'757 and Dail, as applied to claims 3, 13, 28, and 33 above, and further in view of Houji (U.S. 5,832,197).

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Regarding claims 9, 20-22, 25-27, 30, 35-37, and 40-42 the combined system of Chang'412, Chang'757 and Dail discloses all aspects of the claimed invention set forth in the rejection of claims 3, 13, 28, and 33 as described above.

Neither Chang'412, Chang'757 nor Dail explicitly discloses pass an traffic request to a destination node and to establish an traffic path after having determined that all nodes along the proposed path have accepted/allocated an traffic request.

However, the above-mentioned claimed limitations are taught by Houji'197. In particular, Houji'197 teaches pass an traffic request (see FIG. 1, Node N1; also see FIG. 2, step 20, connection request process and pass by Node N1) to a destination node (see FIG. 1, destination Node N5; see FIG. 2, to destination node, step 23) and to establish an traffic path (see FIG. 1, a path between N1 and N5; see FIG. 2, establishing the path, step 23-26) after having determined that all nodes (see FIG. 1, Nodes N2-N4, N7) along the proposed path (see FIG. 1, the lowest QoS path between N1 and N5; see FIG. 2, step 21) have accepted an traffic request (see FIG. 2, steps 23-26; accept request); see col. 2, lines 45 to col. 3, lines 27).

In view of this, having the combined system of Chang'412, Chang'757 and Dail, then given the teaching of Houji'197, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the combined system of Chang'412, Chang'757 and Dail, by providing establishing end-to-end path between source and destination node upon accepting the connection request by the nodes along the path, as taught by Houji'197. The motivation to combine is to obtain the advantages/benefits taught by Houji'197 since a2 states at col. 1, line 30 to col. 2, lines 2315 that such modification would provide an alternate routing in a

connection-oriented network in which a plurality of nodes are interconnected by the communication links.

9. Claims 10, 23, 31, 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang'412, Chang'757, Dail, Houji, as applied to claims 3, 13, 28, and 33 above, and further in view of Brueckheimer.

Regarding Claim 10, 23, 31 and 38, the combined system of Chang'412, Chang'757, Dail and Houji discloses IP switch fabric, wherein the IP switch fabric is one kind of packet switched fabric, and routing IP traffic associated with a real time ATM service category to the circuit switch fabric (see Chang'412 FIG. 5, step 50,52 and 56; routing to STM ADM according to STM real time signals/traffic (i.e. ATM service category); see col. 12, line 9-46; see col. 15, line 25-52).

Neither Chang'412, Chang'757, Dail nor Houji explicitly disclose variable bit rate (VBR). However, rt-VBR is well known in the art for classifying real time application. In particular, Brueckheimer discloses routing traffic associated with a rt-VBR ATM service category to the circuit switch fabric (see FIG. 1, AAL 2 traffic/data in Voice Switch 25; FIG. 14, voice AAL 2 in AAL/IP interworking module; or FIG. 7, voice AAL 2 in VoIP AAL interworking module; see col. 6, lines 47-65; note that traffic/data is related/associated with AAL 2 (i.e. real time VBR category) and routed toward the voice switch/AAL/IP interworking module).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide switching AAL 2 to voice switch, as taught by Brueckheimer,

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in the combined system of Chang'412, Chang'757, Dail and Houji, for the as motivation as stated above in claim 4 and 29.

Allowable Subject Matter

10. Claims 11, 24, 32 and 39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

11. Applicant's arguments filed 2-1-06 have been fully considered but they are not persuasive.

Regarding claims 1,4,12,15,28 and 33, the applicant argued that, "...US Patent No. 6,865,179 (herein after refers to as Cao) fails to disclose or suggest the feature of routing IP traffic based on an ATM service category to either a circuit switch or packet switch fabric...Suzuki does not make up for this deficiency..." in page 15, paragraph 3.

In response to applicant's argument, the examiner respectfully disagrees with the argument above. Cao's claim 1 discloses "... a controller configured to separate telecommunications traffic received at the hybrid switch, including asynchronous transfer mode (ATM) traffic characterized by at least one service category, and to direct traffic to either a circuit or packet switch fabric..." in line 1-4. It is well known in the art that IP traffic data can be encapsulated within ATM cells such as IP over ATM. Suzuki discloses the carrying IP traffic over ATM as set forth above. Therefore, it would have been obvious to one having ordinary skill

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in the art at the time the invention was made to provide, as taught by Suzuki in the art in the system of Cao, so that it would provide an exchange apparatus that securely converts an address with a small amount of information and assures and expands services; see Suzuki col. 2, line 64-67. Thus, it is clear that the combined system of Cao and Suzuki discloses the applicant claimed limitation.

Regarding claims 1,12,28 and 33, the applicant argued that, "...Chang'412 fails to teach or suggest a hybrid telecommunications switch comprising: at least; a controller configured to route IP traffic to the circuit switch fabric or packet switch fabric depending on an ATM service category of the IP traffic ...Chang'757 do make up for these deficiencies" in page 16, paragraph 2 and 5.

In response to applicant's argument, the examiner respectfully disagrees with the argument above.

Chang'412 discloses a controller (see FIG. 4, Type check 24; see col. 11, line 46-50; see col. 12, line 15-22) route traffic (see col. 11, line 1-16; signals/traffic) to the circuit switch fabric or packet switch fabric depending on an ATM service category/type of traffic (see FIG. 5, step 50,52 and 56; note that ATM service category/type are defined as real time or non-real time signals; and thus, when routing according to ATM service category one must route by determining whether the service signals are real-time or non-real time signals. Thus, routing to either STM/TDM or ATM ADMs according to type of service as STM real time signals/traffic or ATM real/non-real time signals/traffic; see col. 12, line 9-46; see col. 15, line 25-52).

Chang'412 FIG. 5, step 50 clearly shows determining whether to route the traffic to ATM or STM. Examiner asserts "ATM service categories", in accordance with well establish teaching

in art, as "real time signal" and "non-real time signal" services categories (see cited reference below). It is also well establish teaching in art that STM (Synchronous Transfer Mode) or TDM (Time Division Multiplexing) switching primarily switches the real time signal, and ATM (Asynchronous Transfer Mode) switching primarily switches the non-real time signals (see cited reference below). Thus, when determining whether to switch to ATM or STM, it is actually determining signals whether they are real time or non-real time signal, and routing the signal to either STM or ATM accordingly.

The following prior art references disclose STM and ATM and their corresponding "ATM service category", and routing signal to either STM or ATM accordingly.

Dial (US005570355A)- STM traffic is real-time traffic (e.g. voice, narrow band ISDN, or video), and ATM traffic is non-real time traffic (e.g. delay sensitive VBR); see FIG. 11, see col. 7, line 40-65; see col. 16, line 34-57.

Hluchyj (US006381238B1)- signal processing servers 2 switching ATM traffic (which has service categories, e.g. CBR, VBR, rt-VBR, nrt-VBR) to circuit switch fabric 26 or packet switch fabric 23. See col. 1, line 10 to col. 2, line 11.

Afanador (US006317426B1)- STM protocol, a given user receives time slices, which are at predetermined period time (i.e. real time). In contrast, under ATM protocol, a given user receives time slices at non-periodic times, which may be variable or random (i.e. non-real time); see col. 3, line 25-36.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re*

Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case, the rejection is based on the combined system of Chang'412 and Chang'757 as a whole as set forth above.

In view of the above, **the examiner respectfully disagrees** with applicant's argument and believes that the combination of Chang'412 and Chang'757 as set forth in the 103 rejections are proper.

Conclusion

12. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian N. Moore whose telephone number is 571-272-3085. The examiner can normally be reached on 9:00 AM- 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Chow to office